Unit 2 Practice Questions – THE DOCTORS SURGERY.

Part A Set Task Brief

You are advised to spend 10 minutes reading the Task Scenario and the activities you are to complete.

You may make notes and/or highlight information to use in the completion of the documents you need to produce for your task.

Task Scenario

You have been asked to create a database for the East Berkshire Doctors Surgery. Currently all records are stored on a spreadsheet.

The surgery would like to be able to store and report on surgery visits. Currently staff have two types of speciality – GP and Nurse. The surgery would like to have more specialised doctors and nurses in the future, but each member of staff will continue to have a single speciality. The database will record information about:

- Staff
- Patients
- The appointments on a given day.

Each doctor must see at least one patient in a day.

A patient cannot see more than one doctor in a day.

An Appointment Type can be a single or a double session identified as 1 or 2.

There are two types of patient: Private and NHS. Privately funded patients are sent a bill of £50 for each visit to the Doctor.

A doctor cannot see more than 2 privately funded patients in a single day.

When an appointment is made the staff and the patient are selected.

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The Doctors Surgery Sample Data

Appointment ID	StaffID	PatientID	Staff Speciality	Appointment Date	Appointment Type	House Number	Speciality ID	Postcode	Patient Type	Staff Surname	Patient Surname
1	1	27	GP	27/07/2020	1	5	1	RG4 8NP	Private	Smith	Iqbal

Figure 1 Sample Data for the Doctors Surgery.

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Activity 2: Table structures and validation (45 minutes)

Create efficient table structures based on Activity 1 and the data shown in Figure 1.

The table structures must use suitable validation to meet these requirements:

- a patient record will not save if the surname is missing
- a patient record will not save if the house number is missing
- a patient record will not save if the postcode is missing
- a patient record will not save if the postcode is not in the correct format
- a patient record will not save if the patient type is missing

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Input the data given in **Figure 1** into your relational database.

Evidence your table structures and validation as screenprints

Display your screenprints to show:

- the design view of each table showing the structure, including the fields and data types
- validation including a suitable example for each of these:
  - presence check
  - length check
  - value lookup or range check
  - table lookup
  - format check.

You are advised to spend **45 minutes on this activity.**

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